INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003687

	101/012004/00308/
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B25J19/00, B25J19/06	
According to International Patent Classification (IPC) or to both nation	nal classification and IPC
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by control of B25J19/00, B25J19/06	classification symbols)
Kokai Jitsuyo Shinan Koho 1971-2004 T	itsuyo Shinan Toroku Koho 1996-2004 oroku Jitsuyo Shinan Koho 1994-2004
Electronic data base consulted during the international search (name of	data base and, where practicable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category* Citation of document, with indication, where a	·
X JP 3-161295 A (Tokico Ltd.), Y 11 July, 1991 (11.07.91), Page 3, upper left column to right column; Fig. 3 (Family: none)	3-6
Y JP 3-92288 A (Hitachi, Ltd.) 17 April, 1991 (17.04.91), Page 3, upper left to upper Figs. 1, 2 (Family: none)	
Y JP 8-126990 A (Yaskawa Elect 21 May, 1996 (21.05.96), Par. Nos. [0004], [0007] to (Family: none)	
× Further documents are listed in the continuation of Box C.	See patent family annex.
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed	being obvious to a person skilled in the art "&" document member of the same patent family
Date of the actual completion of the international search 14 July, 2004 (14.07.04)	Date of mailing of the international search report 03 August, 2004 (03.08.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 6-318108 A (Fanuc Ltd.), 15 November, 1994 (15.11.94), Full text; all drawings (Family: none)	1-6
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 86635/1992(Laid-open No. 50786/1994) (Meidensha Corp.), 12 July, 1994 (12.07.94), Full text; all drawings (Family: none)	1-6